



# MATERIAL REPORT

DATE: 3/01

**TITLE:** Evaluation of Parker Compound E1549-70 (63447) to ASTM D2000 M3DA714 A26 B36 EA14 F19 G11 G21 Z1 Z2 Z3

**PURPOSE:** To verify Parker Compound E1549-70 meets all phases of the above specification.

**CONCLUSION:** Parker Compound E1549-70 meets or exceeds all phases of the above specification.

Recommended temperature limits: -70°F to 250 °F

Recommended For

Hot water and steam

Glycol based brake fluid

Many organic and inorganic acids

Cleaning agents, soda and potassium alkalis

Phosphate –ester based hydraulic fluids

Silicone oil and grease

Polar solvents

Ozone, Aging and weather resistance

Not Recommended For

Mineral oil products



**Compound Data Sheet**  
Parker O-Ring Division United States

**REPORT DATA**

		<b>Compound E1549</b>	<b>M3DA 714 A26 EA14 F19 G11G21 Z1 Z2 Z3 Spec.</b>
<b>Originals</b>			
Hardness, Durometer		70	70 +/- 5
Tensile Strength, Mpa		14.9	14 min
Modulus @ 100% Elongation, Mpa		2.6	2.0 min
Elongation, %		336	200 min
Specific Gravity		1.11	1.11 +/- 0.03
FDA compliant, but not for edible oils, or dairy products		Yes	Yes
BS 6920 (WRAS/WRc Approved) (Z1)		Yes	Yes
NSF 61 Certified		Yes	Yes
KTW Approved		Yes	Yes

<b>Heat Aged 70 hrs @ 150 °C</b>			
Change in Hardness, pts		3	+10 max
Change in Tensile Strength, %		+2	-20 max
Change in Elongation, %		-10	-20 max

<b>Compression Set 22 hrs @ 150 C</b>			
Compression Set, % (1/2" buttons)		14	25 max
Compression Set, % (Plied Slabs)		22	25 max

<b>Aging in Distilled Water 70 hrs @ 100 C</b>			
Change in Hardness, pts		-2	-5 to +5
Change in Tensile Strength, %		+2	-25 max
Change in Elongation, %		0	-25 max
Change in Volume, %		+1.74	+/- 5

<b>Tear Strength</b>			
Die 'B' (kN/m)		32	17 min
Die 'C' (kN/m)		37	17 min

<b>Low Temperature Brittleness</b>			
Non-Brittle after 3 min @ -55 C		Pass	Pass
TR-10 (C)		-42 C	-40 or lower